WELDING JOURNAL INDEX

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Welding Journal

This part includes general technical articles, papers presented before Section and National meetings, articles for the Practical Welder and Designer, news, biographical items, current welding literature and advertising.

Welding Research Supplement

This section includes the reports of the Welding Research Council, critical digests of the literature, reports of the Project Committees and research reports of industry, also papers presented at National Meetings.

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JOHNSON, E. W.—Fully Austenitic Stainless Steel Welding Electrodes for High-Temperature Applications, 543-s to 562-s (Dec).

KADLECEK, P. E.—Microstructural Variations in Welded Austenitic Stainless Steel Caused by Heating at 1350° F 73-s to 81-s (Feb).
KENYON, NORMAN—Effect of Austenite on the Toughness of Maraging Steel Welds, 193-s to 198-s (May).
KING, W. H.—Additional Studies on the Diffusion Welding of Titanium, 444-s to 450-s (Oct).
KIRBY, R. S.—Brazing of Nickel-Chromium Alloy 718, 97-s to 105-s (Mar).
KRINKE, T. A.—Weldability Studies for AFC-77—Part I: Mechanical Properties, 332-s to 336-s (Jul).

LAMBASE, J. M.—Residual Stresses in Welded Titanium and Their Effects on Mechanical Behavior, 289-s to 298-s (Jul).
LANDON, P. R.—Technical Note: Cause of Cracking in Thorium During Fusion Welding, 575-s to 576-s (Dec).
LANG, F. H.—Inert Gas Welding of 12% Nickel Maraging Steel, 25-s to 34-s (Jan).

LARSSEN, P. A.—Markings in Radiographs of 2014 Aluminum Alloy Gas Tungsten-Arc Welds, 223-s to 225-s (May).

LEE, J. W.—Varestraint Testing of Cast 70 Cu – 30 Ni Alloy, 371-s to 377-s (Aug).

LINDEMER, T. B.—Technical Note: Apparatus for Bonding and Diffusing Metal Specimens Under Pressure, 222-s and 240-s (May).

LIPTAK, J. A.—Welding Dissimilar Aluminum Alloys, 173-s to 180-s (Apr).

LONG, E. L., JR.—Technical Note: Unusual Weld Cracking Problem in Inconel, 479-s to 480-s (Oct).

LUBIN, BARRY T.—Dimensionless Parameters for the Correlation of Electron Beam Welding Variables, 140-s to 144-s (Mar).

LUDWIG, H. C.—Current Density and Anode Spot Size in the Gas Tungsten Arc, 234-s to 240-s (May)

LUNDIN, C. D.—Technical Note: An Effect of Shielding Gas on Penetration in Inconel Weldments, 313-s, 322-s and 336-s (Jul).

LUNDIN, C. D.—Segregation and Hot Cracking in Low-Alloy Quench and Tempered Steels, 420-s to 425-s (Sep).

LUNDIN, C. D.—Solidification of Fusion Welds in Face-Centered Cubic Metals, 522-s to 526-s (Nov).

LUNDIN, C. D.—Technical Note: Direct Observation of Microstructural Changes Associated with Fusion Welding, 527-s to 528-s (Nov).

MCGEADY, L. J.—Delta Test Determination of Fracture Characteristics of Carbon Steels, 19-s to 24-s (Jan).

MCGEADY, L. J.—The Delta Test Applied to Quenched and Tempered Steels, 121-s to 128-s (Mar).

MCGEADY, L. J.—Fracture Characteristics of Welded Quenched and Tempered Steels in Various Specimens, 563-s to 570-s (Dec).

MCGRAW, G. R.—Fully Austenitic Stainless Steel Welding Electrodes for High-Temperature Applications 543-s to 562-s (Dec).

MANNING, R. D.—Performance Tests of a High-Yield-Strength Steel for Ships, 534-s to 542-s (Dec).

MARCELLIN, W. J.—Technical Note: Cause of Cracking in Thorium During Fusion Welding, 534-s to 542-s (Dec).

MATTHEWS, S. J.—Weldability Observations in 70/30 Copper-Nickel Tubesheet Material, 155-s to 161-s (Apr).

MEINHART, C. J.—Effects of Electron Beam Welding Upon Adhesive Bonded Honeycomb Structures, 393-s to 397-s (Sep).

MEISTER, R. P.—Cathodic Cleaning and Plasma Arc Welding of Aluminum, 226-s to 233-s (May).

MEITZNER, C. F.—Arc Weldability Studies of Roller-Quenched 100,000 psi Yield Strength Steel Plate, 279-s to 285-s (Jun).

MEITZNER, C. F.—Effects of Sheet Steel Composition on Porosity in Gas Tungsten-Arc Welds, 529-s to 533-s (Dec).

MILLER, F. M.—Use of the AWS Standard Shear Test Method for Evaluating Brazing Parameters, 481-s to 514-s (Nov).

MITANI, Y.—Cold Cracking in Multilayer Welds of Low-Alloy High-Strength Steel, 35-s to 46-s (Jan).

MONROE, R. E.—Cathodic Cleaning and Plasma Arc Welding of Aluminum, 226-s to 233-s (May).

MONROE, R. E.—Electron Beam Welding of Beryllium—Part II, 497-s to 514-s (Nov).

NAKAMURA, H.—Cold Cracking in Multi-Layer Welds of Low-Alloy High-Strength Steel, 35-s to 46-s (Jan).

NICHOLS, E. E.—Varestraint Testing of Cast 70 Cu – 30 Ni Alloy, 371-s to 377-s (Aug).

NUNEZ, S.—Practical Solutions to Strain-Age Cracking of René 41, 299-s to 313-s (Jul).

OWCZARSKI, W. A.—Fusion-Line Composition Gradients in an Arc-Welded Alloy, 115-s to 120-s (Mar).

OWCZARSKI, W. A.—Additional Studies on the Diffusion Welding of Titanium, 444-s to 450-s (Oct).

PATTEE, H. E.—Theoretical and Experimental Study of Cathodic Cleaning with the Plasma Arc, 181-s to 192-s (Apr).

PATTEE, H. E.—Cathodic Cleaning and Plasma Arc Welding of Aluminum, 226-s to 233-s (May).

PENSE, A. W.—The Influence of Notches on the Fatigue Resistance of Pressure Vessel Steels, 63-s to 72-s, (Feb).

PENSE, A. W.—The Creep Rupture Properties of Pressure Vessel Steels—Part III, 145-s to 154-s (Apr).

PHILLIPS, A.—The Influence of Cooling Rates on the Microstructure and Strength of 2014 Aluminum Alloy Welds, 82-s to 89-s (Feb).

PRAGER, M.—Practical Solutions to Strain-Age Cracking of René 41, 299-s to 313-s (Jul).

PREECE, F. R.—Proposed Working Stresses for Fillet Welds in Building Construction, 429-s to 432-s (Oct).

RANDALL, M. D.—Theoretical and Experimental Study of Cathodic Cleaning with the Plasma Arc, 181-s to 192-s (Apr).

READAL, R. L.—Fully Austenitic Stainless Steel Welding Electrodes for High-Temperature Applications, 543-s to 562-s (Dec).

ROBELOTTO, R.—Residual Stresses in Welded Titanium and Their Effects on Mechanical Behavior, 289-s to 298-s (Jul).

RODEN, W. A.—Evaluation of Resistance Welding In-Process Monitors, 515-s to 521-s (Nov).

ROPER, C. R.—Weldability and Notch Toughness of Heat-Treated Carbon Steels, 385-s to 392-s (Sep).

RUDY, J. F.—Metal Movement and Mismatch in Aluminum Welds, 337-s to 344-s (Aug).

SAPERSTEIN, Z. P.—Fracture Strength and Microstructure of Welds in 2014 Aluminum, 90-s to 96-s (Feb).

SAPERSTEIN, Z. P.—The Reaction of α Brass with Lead-Tin Solders, 162-s to 172-s (Apr).

SAVAGE, W. F.—Technical Note: An Effect of Shielding Gas on Penetration in Inconel Weldments, 313-s, 322-s and 336-s (Jul).

SAVAGE, W. F.—Segregation and Hot Cracking in Low-Alloy Quench and Tempered Steels, 420-s to 425-s (Sep).

SAVAGE, W. F.—Solidification of Fusion Welds in Face-Centered Cubic Metals, 522-s to 526-s (Nov).

SAVAGE, W. F.—Technical Note: Direct Observation of Microstructural Changes Associated with Fusion Welding, 527-s to 528-s (Nov).

SHIN, SHIGEO—Ultrasonic Welding of Metals to Nonmetallic Materials, 398-s to 403-s (Sep).

SIBLEY, C. R.—Discussion on Stabilized Stainless Steel, 47-s to 48-s (Jan).

SIGNES, E. G.—Diffusion Welding of Steel in Air, 571-s to 574-s (Dec).

SLAUGHTER, G. M.—Technical Note: Unusual Weld Cracking Problem in Inconel, 479-s to 480-s (Oct).

SLIMMON, P. R.—Arc Weldability Studies of Roller-Quenched 100,000 psi Yield Strength Steel Plate, 279-s to 285-s (Jun).

SOMERS, R. E.—Arc Weldability Studies of Roller-Quenched 100,000 psi Yield Strength Steel Plate, 279-s to 285-s (Jun).

STARK, L. E.—Properties and Cracking Resistance of Welded Ti – 8Al – 1Mo – 1V Plate, 203-s to 209-s (May).

STEINER, C. J. P.—The Creep Rupture Properties of Pressure Vessel Steel—Part III, 145-s to 154-s (Apr).

STOUT, R. D.—The Influence of Notches on the Fatigue Resistance of Pressure Vessel Steels, 63-s to 72-s (Feb).

STOUT, R. D.—The Creep Rupture Properties of Pressure Vessel Steels—Part III, 145-s to 154-s, (Apr).

STOUT, R. D.—Weldability and Notch Toughness of Heat-Treated Carbon Steels, 385-s to 392-s (Sep).

TELFORD, R. T.—Gas Metal-Arc Welding of HY–130(T) Steel, 271-s to 278-s (Jun).

THOMPSON, E. G.—Practical Solutions to Strain-Age Cracking of René 41, 299-s to 313-s (Jul).

TOPRAC, A. A.—Technical Note: The Effect of Welding Sequence on Residual Stresses in Welded H-Shapes, 426-s to 428-s (Sep).

TOY, A.—Residual Stresses in Welded Titanium and Their Effects on Mechanical Behavior, 289-s to 298-s (Jul).

TUCKER, M. S.—The Influence of Cooling Rates on the Microstructure and Strength of 2014 Aluminum Alloy Welds, 82-s to 89-s (Feb).

TUCKER, M. S.—Markings in Radiographs of 2014 Aluminum Alloy Gas Tungsten-Arc Welds, 223-s to 225-s (May).

WILSON, R. W.—Chemical Vapor Deposition Welding—Below the Recrystallization Temperatures, 345-s to 354-s (Aug).

WOZNEY, G. P.—An Investigation of Vibrational Stress Relief in Steel, 411-s to 419-s (Sep).

WU, K. C.—Weldability Studies for AFC–77—Part I: Mechanical Properties, 332-s to 336-s (Jul).

WU, K. C.—Electrode Indentation Criterion for Resistance Spot Welding, 472-s to 478-s (Oct).

YOUNG, J. G.—BWRA Experience in the Welding of Aluminum-Zinc-Magnesium Alloys, 451-s to 461-s (Oct).

YURA, J.—Technical Note: The Effect of Welding Sequence on Residual Stresses in Welded H-Shapes, 426-s to 428-s (Sep).

ZACKAY, V. F.—On the Plane Stress Plastic Zone Correction in Fracture Mechanics, 378-s to 384-s (Aug).

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